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Via Electronic Filing

June 23, 2021

Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
Austin, TX 78711-3326

RE: PUC Project No. 51840 Rulemaking Establishing Electric Weatherization Standards

Dear Commission Staff:

Key Capture Energy, LLC ("KCE") is a developer, owner, and operator of stand-alone battery storage projects in Texas. KCE affiliates currently have 29.7 MW of operating batteries in the ERCOT market and 200 MW of batteries under construction.

KCE offers the following comments in response to the "Public Notice of Request for Comments" issued by the staff of the Public Utility Commission of Texas in Project No. 51840 dated June 9, 2021. KCE believes that the following recommendations represent appropriate weatherization standards for containerized battery storage projects operating as providers of electric generation service in the Electric Reliability Council of Texas ("ERCOT") power region:

Air Infiltration Testing: Containerized battery storage projects should be required to perform
air infiltration testing for a representative sample of containers at each project site. Infiltration
testing ensures that the container envelope is airtight and adequately sealed against leaks.
Testing should be performed using the ASTM E1827 testing standard or the ASTM E779
testing standard.<sup>2</sup> Battery projects should be required to meet the testing requirement of 0.25

<sup>2</sup> https://www.astm.org/Standards/E1827.htm; https://www.astm.org/Standards/E779.htm

25 Monroe St, Suite 300

Albany, NY 12210

720 Rusk Street Houston, TX 77002 150 State Street Salt Lake City, UT 84111

<sup>&</sup>lt;sup>1</sup> Containerized battery projects house battery cells in a weather-resistant insulated metal enclosure and are typically contrasted with building solutions that house batteries in a building structure.



CFM at 75 Pa/ft<sup>2</sup> established by the "U.S. Army Corps of Engineers Air Leakage Test Protocol for Building Envelope".3

2. HVAC Design Specification: Containerized battery storage projects should use an HVAC

system that is able to keep battery cells within their manufacturer-specified nominal minimum

and maximum temperature range across the full range of the project site's minimum and

maximum ambient temperatures as defined by the American Society of Heating, Refrigerating

and Air-Conditioning Engineers ("ASHRAE").4 Battery storage projects should be required

to provide computational fluid dynamics ("CFD") analysis to demonstrate the project design is

compliant.

3. Freezing Prevention: Any system requiring the use of liquid water or that is in danger of

freezing under site minimum temperatures should have freeze prevention or freeze protection

systems installed. For example, dry standpipe solutions can be used to prevent freezing in fire

suppression systems.

KCE appreciates the opportunity to provide comment, and we are happy to address any follow up

questions with Commission staff as needed.

Respectfully submitted,

/s/ Danny Musher

Danny Musher Key Capture Energy, LLC 25 Monroe Street, Suite 300

Albany, NY 12210

Phone: 516-279-7950

danny.musher@keycaptureenergy.com

 $^{3}\ \underline{\text{https://www.wbdg.org/FFC/ARMYCOE/usace\_airleakagetestprotocol.pdf}}$ 

<sup>4</sup> https://www.ashrae.org/technical-resources/bookstore/weather-data-center